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Subject: Hurricane Harvey ESF10 Texas Situation Report #11 for 9/9/17
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Hurricane Harvey-Texas
ESF-10
Situation Report #11

Subject: SITREP #11
To: Agency Leads
Thru: Matthew Loesel. PSC
From: Unified Command
Date: 9/9/2017
Reporting Period: 9/9/2017

1. Introduction

1.1. Background

Hurricane Harvey made landfall at 2300 ET, August 26th, as a Category 4 storm near Rockport, Texas. Harvey stalled over southeastern TX. Due to its slow motion and a prolonged period of onshore flow, the impacted areas received more than 50 inches of precipitation which subsequently led to catastrophic flooding.

An ESF-10 Mission Assignment was signed on August 28, 2017. The US Environmental Protection Agency (EPA), Texas Commission on the Environmental Quality (TCEQ), Texas General Land Office (TGLO) and the US Coast Guard (USCG) have entered into Unified Command to begin the evaluation, clean-up and recovery of spills, releases, vessels and orphan containers.

2. Current Activities

2.1. Operations Section

On September 9, 2017, Unified Command continued operations in accordance with the Natural Disaster Operational Workgroup (NDOW) Standard Operating Procedures, NDOW forms and Response Manager. The Unified Command is supported by three operational branches: Alpha Branch in Corpus Christi, Bravo Branch in Houston and Charlie Branch in Port Arthur. Hazard Evaluation, Oil Discharge Assessment and Recovery, as well as Orphan Container Evaluation and Recovery teams continued working throughout the Alpha, Bravo and Charlie Branches. Drinking Water (DW) and Waste Water (WW) Assessment teams were active in the Bravo Branch. EPA's mobile air monitoring Trace Atmospheric Gas Analyzer (TAGA) bus conducted air monitoring and continued to monitoring various areas in the Bravo Branch. ASPECT continued to survey Risk Management Program (RMP), Facility Risk Plan (FRP), Drinking water and Waste water facilities in the affected areas.

Liaison officers are coordinating to get logistical information on where Community Liaisons will be located to advise Unified Command (UC) staff. On Sunday, September 10, 2017, Liaison officers have coordinated a meeting to be held at Salt Lake Baptist Church in rural Rockport, TX to meet with residents and disseminate information.

Public information officers closed out a media inquiry from Port Arthur news on “what is EPA doing in the Port Arthur area.” A joint news release from EPA and TCEQ was issued today updating the public on the Hurricane Harvey overall response.

Table 1 represents the up to date assessments of drinking water and waste water systems evaluated by both phone and on-site.

Assessment Type	Daily Assessments	Total Assessments
On-Site DW Assessment	53	347
On-Site WW Assessment	26	237
Phone DW Assessment	331	5006
Phone WW Assessment	82	3026

Table 2: Field Teams on 9/9/2017 – per IAP #10				
Teams	Alpha	Bravo	Charlie	Total
Hazard Evaluation	1	15	4	20
Oil Discharge Assessment	2	4	1	7
ER/Orphan Container Recovery	1	5	1	7
Oil/Vessel Recovery	4	0	0	4
Staging Areas	1	1	0	2
Air Operations	0	1	0	1
Air Monitoring	0	3	0	3
Water Infrastructure Assessment – DW	0	10	0	10
Water Infrastructure Assessment – WW	0	5	0	5
Totals	9	44	6	59

Table 3: Daily/Cumulative summary of Hazard Evaluations/Recovery				
Status	Opened		Closed	
	9/9/2017	Number of Targets Remaining Open	9/9/2017	Cumulative
Alpha Branch	5	31	0	89
Bravo Branch	22	233	1	47
Charlie Branch	8	56	0	7
NRC Reports	0	3	0	0

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

Table 4: Daily/Cumulative Summary of Spills/Discharges (NON-VESSELS)				
Status	Opened		Closed	
	9/9/2017	Number of Facilities/Spills Remaining Open	9/9/2017	Cumulative
Alpha Branch	0	14	1	34
Bravo Branch	2	52	1	27
Charlie Branch	2	19	0	7
NRC Reports	1	131	5	44
Totals	5	216	7	112

Note: Open means the target is yet to be recovered. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

Table 5: Daily/Cumulative Summary of VESSELS				
Status	Opened		Closed	
	9/9/2017	Number of Vessels Remaining Open	9/9/2017	Cumulative
Alpha Branch	12	419	22	149
Bravo Branch	2	53	0	10
Charlie Branch	33	39	1	3
NRC Reports	0	6	0	1
Totals	47	517	23	163

Note: Open means the target is yet to be recovered. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

Other Notable Activities

ALPHA BRANCH

The Oil Discharge Recovery Group oversaw salvage and spill prevention operations for the sunken vessel Belle Chase. The Uninspected Towing Vessel Belle Chase was raised above the water line with the assistance of salvage straps from a barge crane. Subsequently, the salvage contractors commenced pumping operations to remove water throughout the vessel. No observed pollution.

Oil Discharge Assessment Team 1 completed waste oil removal operations onboard the Signet Enterprise. A total of 400 gallons of waste oil was removed. The Signet Enterprise still has ballast water onboard. The Oil Discharge Assessment Team will be on scene tomorrow to oversee the removal process of all ballast water and to complete a final assessment of oil or hazardous substance products onboard the Signet Enterprise.

The Oil Discharge Recovery Group coordinated and monitored Responsible Party led operations in Island Moorings, Rattle Snake Point, Ingleside, Seadrift, Harbor of Refuge and Holiday Beach. In preparation of the signing of unified command approved vessel removal protocols, the teams within the Oil Discharge Recovery Group prioritized threats to the environment for removal.

DATE	CONTAINERS			Cylinders	TOTALS	
	Drums [55gal]	Small Containers [< 55gal]	Large Containers [> 55gal]		Total Items Collected Today	Total Items Collected Project to Date
9/1/2017	26	21	1	1	49	49
9/2/2017	6	10	1		17	66
9/3/2017	7			3	10	76
9/4/2017	10		3	1	14	90
9/5/2017				4	4	94
9/6/2017	3		1		4	98
9/7/2017	1		1	3	5	103
9/8/2017	4		1	5	10	113
9/9/2017	17	5	0	1	23	136
Totals	74	36	8	18		

BRAVO BRANCH

Hazard Evaluation (HE) teams conducted and completed assessments in Brazoria, Matagorda, and Harris Counties. A total of 23 targets were identified, with nothing significant to report. Targets did not present a significant, immediate threat.

HE Assessment Status: 100% complete in Liberty, Austin, Waller, Chambers, Montgomery, Fort Bend, Galveston, Bastrop, Lee, Fayette, Colorado, Wharton, and Walker Counties. 90% complete in Brazoria, Matagorda, and Harris Counties.

The Air Recon Team conducted an aerial over flight of the mouth of the Colorado River to Highway 59, the beginning of the Old Brazos River and the Brazos River to Highway 59, St. Bernard River to Highway 59, and Chocolate Bayou to Highway 6. During the over flight, the Air Recon Team identified 3 new targets and reinvestigated a report of a sunken vessel in Texas City. The air recon team were unable to identify the sunken vessel; however, position was marked for future reassessment.

ASPECT conducted two flights. The flights completed 100% of all targeted Risk Management Program, Drinking water and Waste water facilities in east Brazoria county and most of Galveston county.

CHARLIE BRANCH

The Inland hazard evaluation team assessed Lumberton, Hardin County. Heavy oil stains were seen on Cook's Lake Road. An investigation revealed that three tanks with a total volume of 2000 gallons had leaked. TCEQ contacted the responsible party, who is conducting a cleanup. TCEQ will oversee this cleanup. The company was advised to contact the NRC. No EPA assistance is needed at this time.

The Branch secured the container staging pad for future operations. The pad was sampled today prior to any container storage.

The Coastal Hazard Evaluation Team investigated a citizen report of oil at Bessie Height Marsh within Jefferson County, Texas. The team identified fragmented sections of oil residue identified along the grass in the Marsh. There was no observed ongoing source but a small impacted area. The team recorded the location and executed spill mitigation protocols.

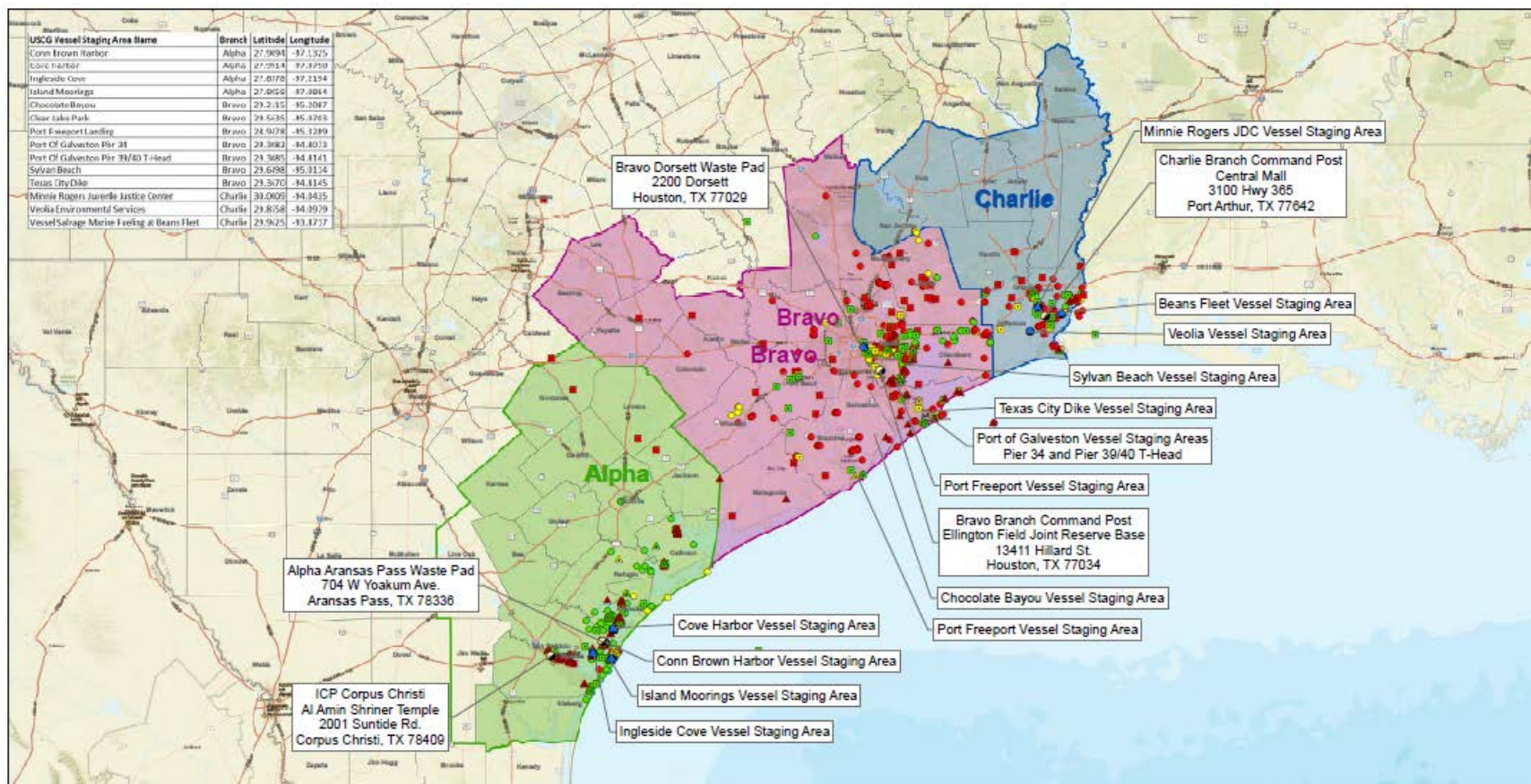
The Coastal Hazard Evaluation Team assessed 4 vessels at Angelet's Marina and 28 vessels at the Beaumont Yacht Club. There was no significant safety or environmental risks posed by the identified targets in accordance with NDOW procedures. All 32 targets were entered into NDOW to be tracked and subsequently resolved.

Participating Agencies

- **Texas Commission on Environmental Quality**
- **Texas General Land Office**
- **Texas Parks and Wildlife**
- **US Environmental Protection Agency**
- **US Coast Guard**
- **National Oceanic and Atmospheric Agency**

3. Personnel on Site

Agency	ICP	Alpha Branch	Bravo Branch	Charlie Branch	Totals
US EPA	10	3	36	3	52
USCG	20	17	31	30	98
TCEQ	3	5	30	12	50
TGLO	5	3	0	1	9
TXSG	0	0	22	0	22
CST	0	0	0	0	0
NOAA	1	0	1	0	2
Contractors	7	4	12	4	27
Totals	46	32	132	50	260



Legend

Federally Declared Counties: ■ in Alpha ■ in Bravo ■ in Charlie

● Incident Command Post (ICP) / Staging Area ● Vessel Staging Location

Facility/Spill Assessment **Haz/Eval Items** **Vessels**

■ Open	● Open	▲ Open
■ Open - Cleanup in Progress	● Open	▲ Open - Cleanup in Progress
■ Closed	● Closed	▲ Closed

Access Denied/Leave in Place/Refer to Other Agency

**USA EPA REGION 6
SITREP Map
Alpha, Bravo, Charlie**

Hurricane Harvey Response
September 9, 2017

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